

000E90" 94F60950

FIGURE 1A

1 GAGGGTGAAGCCGGGTCTCGCGGCCGGGGCGCATGACTCCTCTCTGCCCTCAATTG 60
61 CTCTGTCTCCTCGAGACCTGTACCCAGGGGTGCAAGGAACCCCATGGCTTGCAATGG 120
121 CAGTGGGCCAGGGGCACTTTGACCCCTGAGGACTTGAACCTGACTGACGAGGCACTGAG 180
181 ACTCAAGTACCTGGGGCCCCAGCAGACAGAGCTGTTCATGCCCATCTGTGCCACATACCT 240
241 GCTGATCTTCGTGGTGGGCGCTGTGGGCAATGGGCTGACCTGTCTGGTCATCCTGCGCCA 300
301 CAAGGCCATGCGCACGCCCTACCAACTACTACCTCTTTCAGCCTGGCCCGTGTGCGGACCTGCT 360
361 GGTGCTGCTGGTGGGCCCTGCCCTGGAGCTCTATGAGATGTGGCACAACTACCCCTTCCT 420
421 GCTGGGCGTTGGTGGCTGCTATTTCCGCACGCTACTGTTTGAGATGGTCTGCGCTGGCCTC 480
481 AGTGCTCAACGTCACTGCCCTGAGCGTGGAACGCTATGTGGCCGTGGTGCAACCCACTCCA 540
541 GGCCAGGTCCATGGTGACGCGGGCCCATGTGCGCCGAGTGCTTTGGGGCCGCTCTGGGGTCT 600
601 TGCCATGCTCTGCTCCCTGCCCAACACACGCTGCACGGCATCCGGCAGCTGCACGTGCC 660
661 CTGCCCCGGGCCAGTGCCAGACTCAGCTGTTTGTCATGCTGGTCCGCCCCACGGGCCCTCTA 720

15



FIGURE 2A

1	M	T	P	L	C	L	N	C	S	V	L	P	G	D	L	Y	P	G	G	A	20
21	R	N	P	M	A	C	N	G	S	A	A	R	G	H	F	D	P	E	D	L	40
41	N	L	T	D	E	A	L	R	L	K	Y	L	G	P	Q	Q	T	E	L	F	60
61	M	P	I	C	A	T	Y	L	L	I	F	V	V	G	A	V	G	N	G	L	80
81	T	C	L	V	I	L	R	H	K	A	M	R	T	P	T	N	Y	Y	L	F	100
101	S	L	A	V	S	D	L	L	V	L	L	V	G	L	P	L	E	L	Y	E	120
121	M	W	H	N	Y	P	F	L	L	G	V	G	G	C	Y	F	R	T	L	L	140
141	F	E	M	V	C	L	A	S	V	L	N	V	T	A	L	S	V	E	R	Y	160
161	V	A	V	V	H	P	L	Q	A	R	S	M	V	T	R	A	H	V	R	R	180
181	V	L	G	A	V	W	G	L	A	M	L	C	S	L	P	N	T	S	L	H	200
201	G	I	R	Q	L	H	V	P	C	R	G	P	V	P	D	S	A	V	C	M	220
221	L	V	R	P	R	A	L	Y	N	M	V	V	O	T	T	A	L	L	F	F	240

FIGURE 3B

721 TCAGTGTCTCTACTACCTCATGGCACTCAGACTAAAGAAAGACAAATCTCTTGAGGCAG 780
781 ATGAAGGGAATGCAAAATATTCAAAGACCCCTGCAGAAAATCAGTCAACAAGATGCTGTTG 840
841 TCTTGGTCTTAGTGTTTGCTATCTGTTGGGCCCCCGTTCCACATGACCGACTCTTCTTCA 900
901 GCTTTGTGGAGGAGTGGAGTGAATCCCCCTGGCTGCTGTGTTCAACCTCGTCCATGTGGTGT 960
961 CAGGTGCTTCTTCTACCTGAGCTCAGCTGTCAACCCCCATTATCTATAACCTACTGTCTC 1020
1021 GCCGCTTCCAGGCAGCATTCAGAAATGTGATCTCTTCTTTCCACAAACAGTGGCACTCCC 1080
1081 AGCATGACCCACAGTTGCCACCTGCCCCAGCGGAACATCTTCCCTGACAGAAATGCCACTTTG 1140
1141 TGGAGCTGACCGAAGATATAGGTCCCCCAATTCCCCATGTCTCAGTCAATGCACAACCTCTC 1200
1201 ACCTCCCAACAGCCCCTCTCTAGTGAACAGATGTCAAGAAACAACTATCAAGCTTCCACT 1260
1261 TTAACAAAACCTGAATTTTCAGAGCTGACTCTCCCTC 1298

FIGURE 4A

1 M S G M E K L Q N A S W I Y Q Q K L E D 20
21 P F Q K H L N S T E E Y L A F L C G P R 40
41 R S H F F L P V S V V Y V P I F V V G V 60
61 I G N V L V C L V I L Q H Q A M K T P T 80
81 N Y Y L F S L A V S D L L V L L L G M P 100
101 L E V Y E M W R N Y P F L F G P V G C Y 120
121 F K T A L F E T V C F A S I L S I T T V 140
141 S V E R Y V A I L H P F R A K L Q S T R 160
161 R R A L R I L G I V W G F S V L F S L P 180
181 N T S I H G I K F H Y F P N G S L V P G 200
201 S A T C T V I K P M W I Y N F I I Q V T 220
221 S F L F Y L L P M T V I S V L Y Y L M A 240

FIGURE 4B

241	L	R	L	K	K	D	K	S	L	E	A	D	E	G	N	A	N	I	Q	R	260
261	P	C	R	K	S	V	N	K	M	L	F	V	L	V	L	V	F	A	I	C	280
281	W	A	P	F	H	I	D	R	L	F	F	S	F	V	E	E	W	S	E	S	300
301	L	A	A	V	F	N	L	V	H	V	V	S	G	V	F	F	Y	L	S	S	320
321	A	V	N	P	I	I	Y	N	L	L	S	R	R	F	Q	A	A	F	Q	N	340
341	V	I	S	S	F	H	K	Q	W	H	S	Q	H	D	P	Q	L	P	P	A	360
361	Q	R	N	I	F	L	T	E	C	H	F	V	E	L	T	E	D	I	G	P	380
381	Q	F	P	C	Q	S	S	M	H	N	S	H	L	P	T	A	L	S	S	E	400
401	Q	M	S	R	T	N	Y	Q	S	F	H	F	N	K	T						415

1	MTPLCLNC SVLP GDLYPGGARNPMACNGSAARGHFDP..EDLNLTDEALR	48
1MSGMEKLQNASWIYQQKLEDPFQKHLNSTEEYLA	34
49	LKYLGPQQTELFMPICATYLLIFVVGAVGNGLTCLVILRHKAMRTPTNYY	98
35	F.LCGPRRSHFFLPVSVVYVPIFVVG VIGNVLVCLVILQHQA MKTPTNYY	83
99	LFS LAVSDLLVLLVGLPLELYEMWHNYPFL LGVGGCYFRTLLFEMVCLAS	148
84	LFS LAVSDLLVLLLGM PLEVYEMWRNYPFLFGPVG CYFKTALFETVCFAS	133
149	VLNVTALSVERYVAVVHPLQARSMVTRAHVRRVLGAVWGLAMLC SLPNTS	198
134	ILSITTVSVERYVAILHPFRAKLQSTRRRALRILGIVWGFSVLFS L PNTS	183
199	LHGIRQLHVPCRGPVPDSAVCMLVRPRALYNMVVQTTALLFFCLPMAIMS	248
184	IHG IKFHYFPNGSLVPGSATCTVIKPMWIYNFIIQVTSFLFYLLPMTVIS	233
249	VLYLLIGLRLRRERLLLMQEAKGRGSAAARSRYTCRLQQHDRGRRQVTKM	298
234	VLYYLMALRLKKDKSLEA DEGN.....ANIQRPC.....RKS VNKM	269
299	LFVLVVVFGICWAPFHADRV MWSVVSQWTDGLHLAFQHVHVISGIFYL G	348
270	LFVLVLVFAICWAPFHIDRLFFSFVEEWS ESLAAVFNLVHV VSGVFFYLS	319
349	SAANPVL YSLMSSRFRET FQEAL.CLGACCH....RLRPRHSSHSLSRM	392
320	SAVNPIIYNLLSRRFQA AFQNVISSFHKQWHSQHDPQLPPAQRNIFLTEC	369
393	TTGSTLC DVGSLG SWVHPLAGNDGPEAQQETDPS.....	426
370	HFVELTEDIGPOFPCOSSMHNSHLPTALSSEQMSRTNYQSFHFNKT	415

FIGURE 6

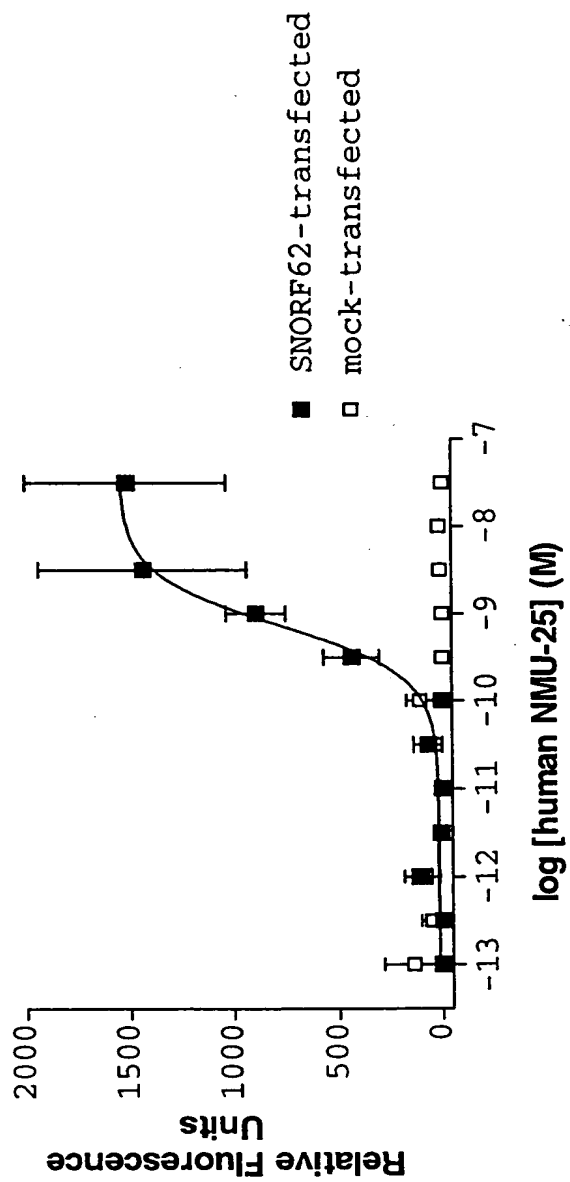


FIGURE 7

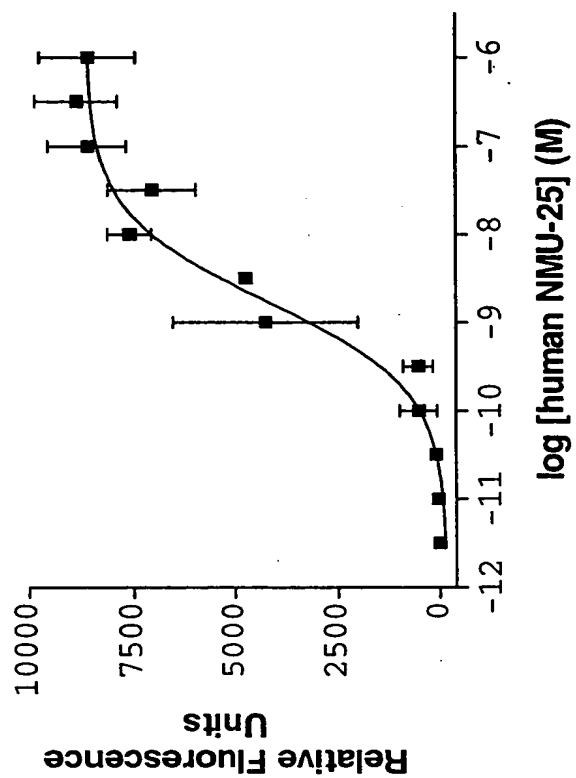
SNORF72-transfected COS-7
cells

FIGURE 8

SNORF72-transfected COS-7 cells

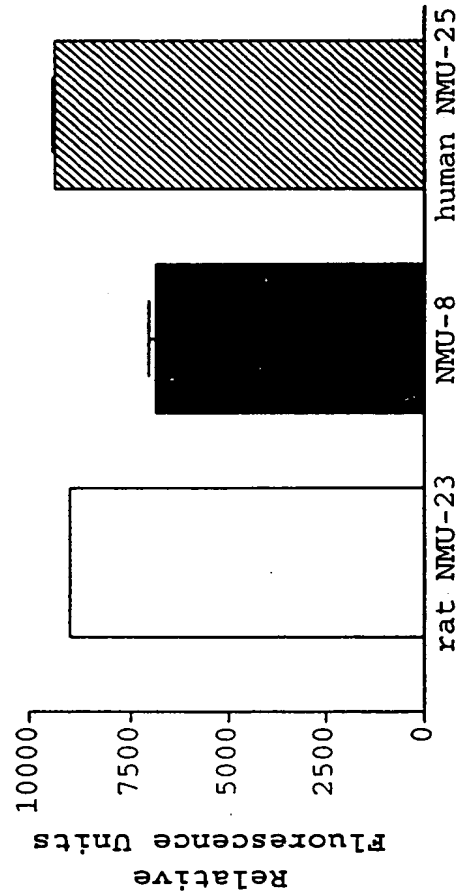


FIGURE 9A

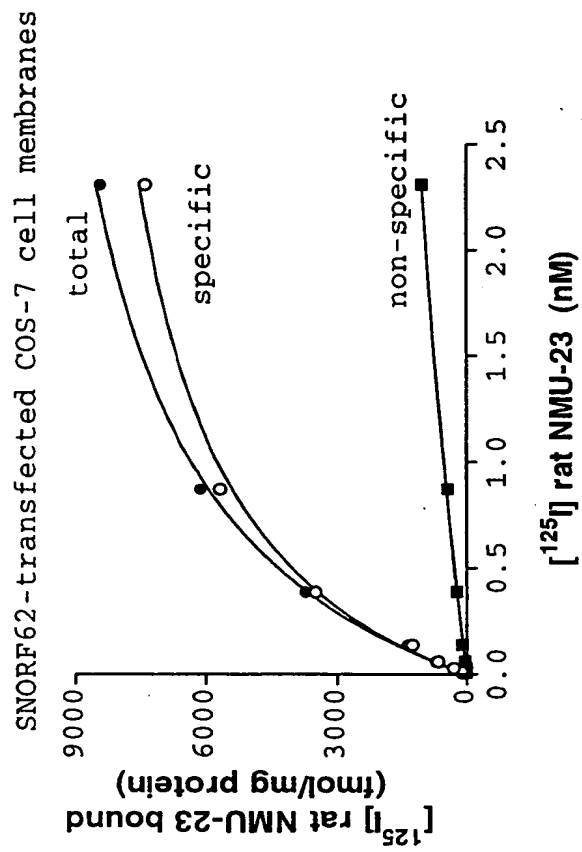


FIGURE 9B

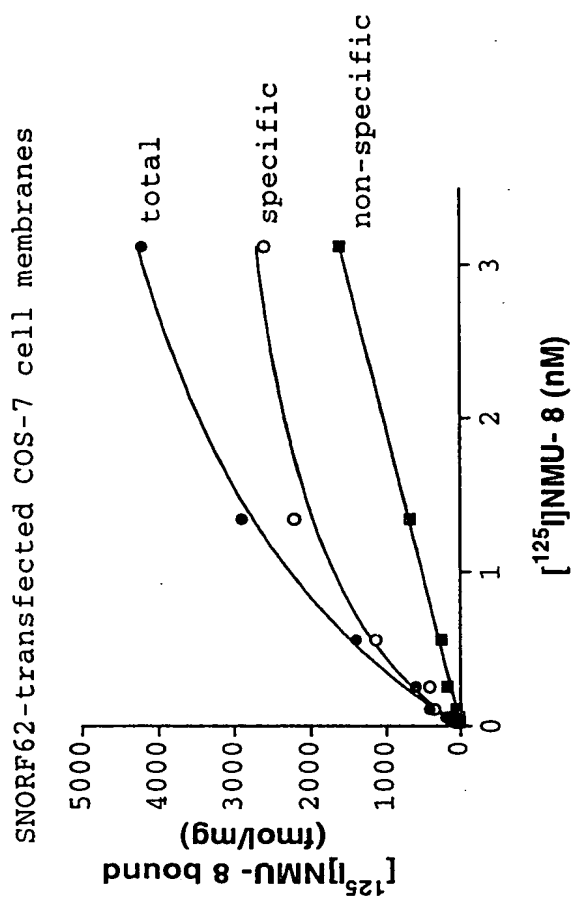


FIGURE 10

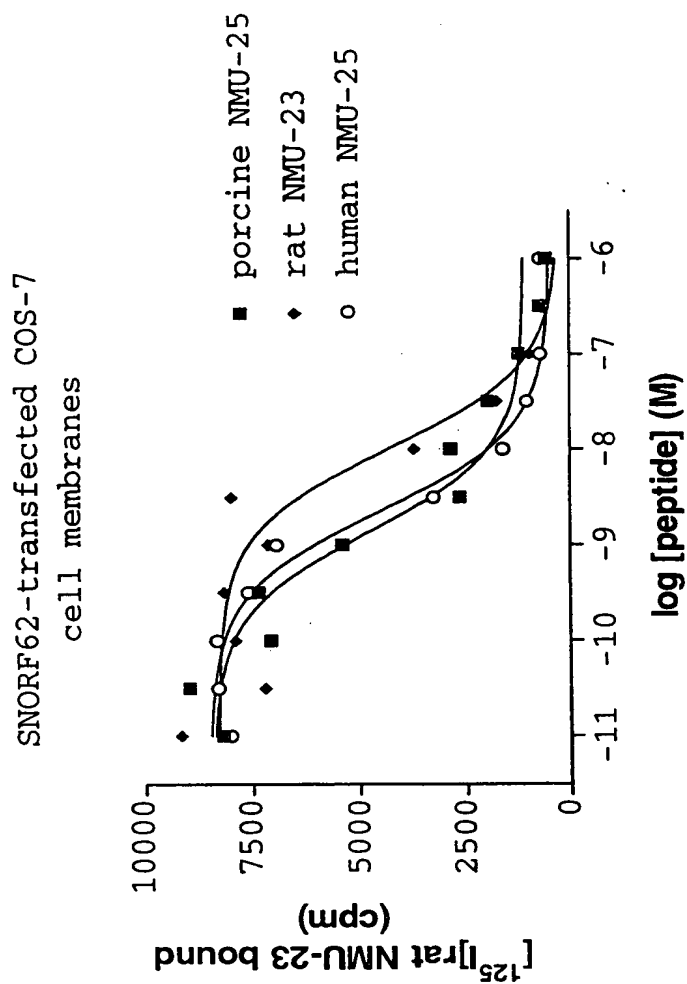


FIGURE 11A

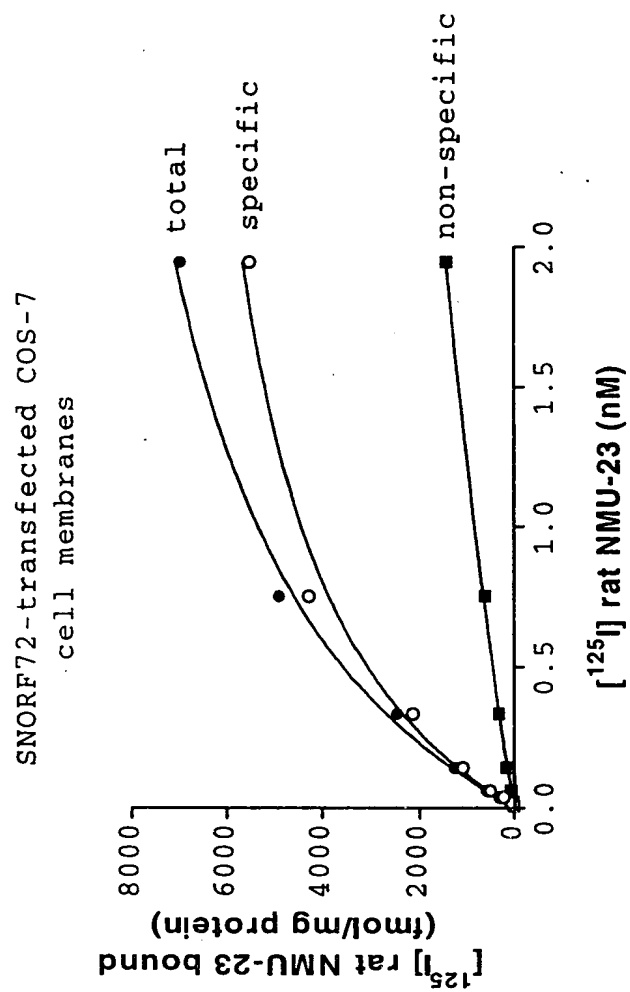


FIGURE 11B

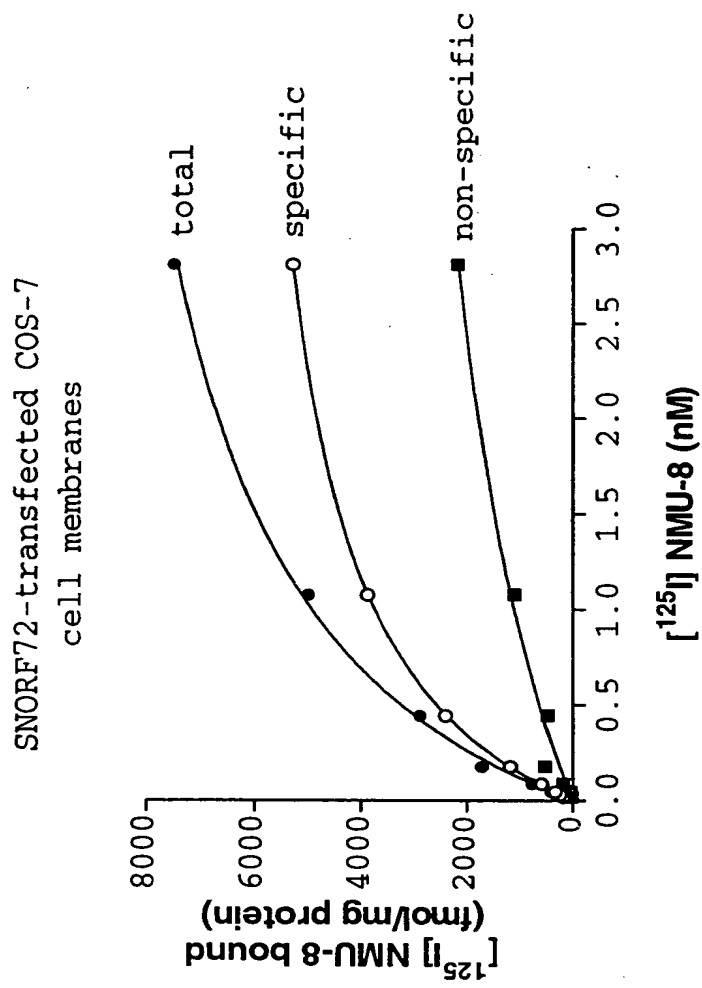
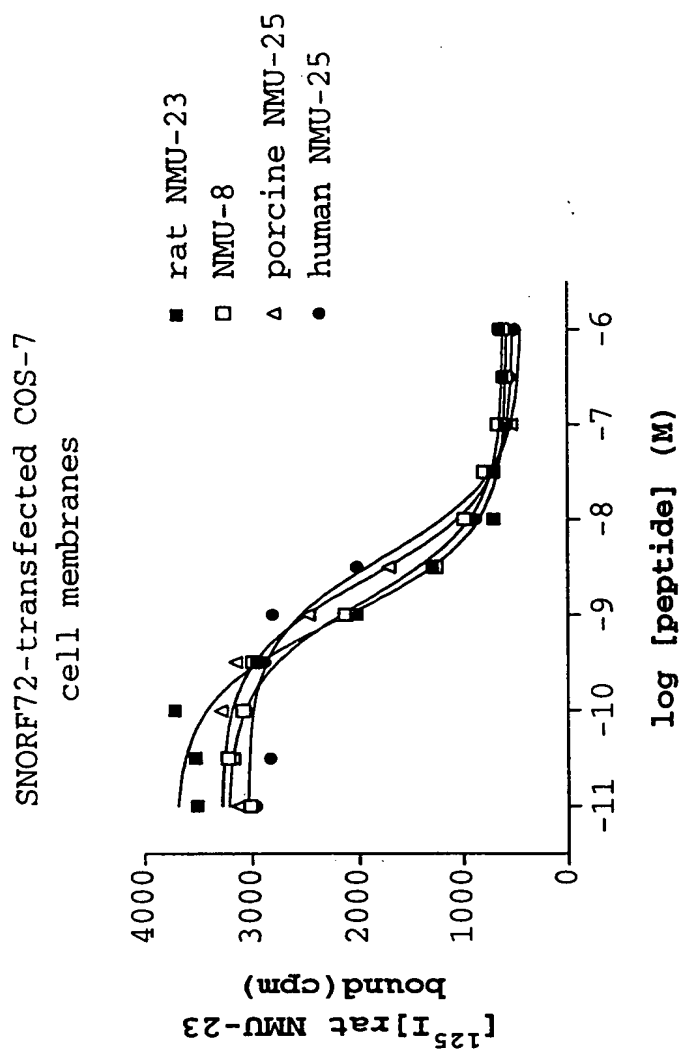


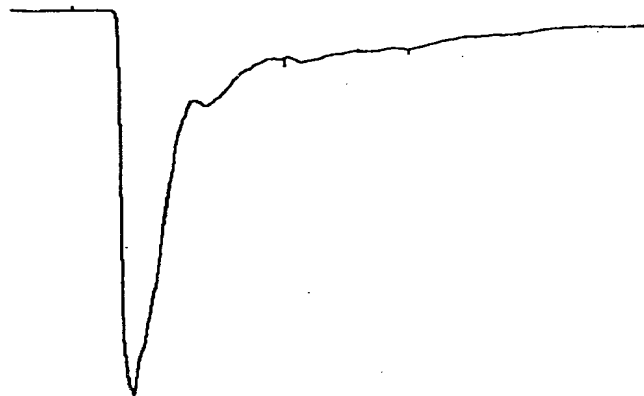
FIGURE 12



(Uninjected)

Human Neuromedin U-25 10^{-6} M

(hSNORF62)



10 s

FIGURE 14A

1 GTTGTGGATTTTAAGCTCAGTAATGGGAAACTTGAAAATGCTTCCTGGATCCACGATCC 60
61 TCTCATGAAGTACTTGAACAGCACAGAGGAGTACTTGGCCCACTGTGTGGACCCAAAGCG 120
121 CAGTGACCTATCCCTTCCGGTGTCTGTGGCCTATGCGCTGATCTTCCTGGTGGGGTAAT 180
181 GGGCAATCTTCTGGTGTGCATGGTGATTTGCCGACATCAGACTTTGAAGACACCCACCAA 240
241 CTAATACTCTCAGCTTGGCAGTCTCAGATCTGCTGGTCCCTGCTCTTGGGGATGCCTCT 300
301 GGAAATCTACGAGATGTGGCACAAATTACCCCTTTCCCTGTTCCGGGCCCTGTGGGATGCTACTT 360
361 CAAGACAGCCCTCTTCGAGACTGTGTGCTTTGGCCCTCCATTCTCAGTGTACCAACGGTTAG 420
421 CGTAGAGCGCTATGTGGCCATTGTCCACCCCTTTCCGAGCCCAAGCTGGAGAGCACGCGCGG 480
481 ACGGGCCCTCAGGATCCTCAGCCTAGTCTGGAGCTTCTCTGTGGTCTTTTCTTTGCCCAA 540
541 TACCAGCATCCATGGCATCAAGTTCAGCACATTTCCCAACGGGTCTCCGTACCTGGCTC 600
601 AGCCACCTGCACAGTCACCAAACCCATGTGGGTGTATAACTTGATCATCCAAGCTACCAG 660
661 CTTCCCTCTTACATCCTCCCAATGACCCCTCATCAGCGTCCCTCTACTACCTCATGGGGCT 720

FIGURE 14B

721 CAGGCTGAAGAGAGATGAATCCCTTGAGGCCAACAAGTGGCTGTGAATATTCACAGACC 780
781 CTCTAGAAAGTCAGTCACCAAGATGCTGTTTGTCCTTGGTCCTCGTGTTCGCACTCTGCTG 840
841 GACCCCTTCCATGTGGACCGGCTCTTCTTCAGCTTTGTGGAAGAGTGGACAGAGTCCCT 900
901 GGCTGCTGTGTTCAACCTCATCCATGTGTATCAGGTGCTTCTTTATCTGAGCTCCGC 960
961 GGTCAACCCCATTAATCTATAACCTCCTGTCTCGGCGCTTCCGGCGGCCCTTTCGAAATGT 1020
1021 TGTCTCCCTTACCTGCAAAATGGTGCCATCCCCGGCATCGGCCACAGGGACCTCCAGCCCA 1080
1081 GAAGATCATCTTCTTGACAGAAATGTCACTCCTCGTGGAGCTGACAGAGGATGCAGGCCCCCA 1140
1141 GTTCCCTGGTCAGTCATCCATCCACAACCAACCTTACCACGGCCCCCTGTGCAGGAGA 1200
1201 GGTACCATAAAGGAGTGGTCAGAAGGCCTC 1231

1	M	G	K	L	E	N	A	S	W	I	H	D	P	L	M	K	Y	L	N	S	20
21	T	E	E	Y	L	A	H	L	C	G	P	K	R	S	D	L	S	L	P	V	40
41	S	V	A	Y	A	L	I	F	L	V	G	V	M	G	N	L	L	V	C	M	60
61	V	I	V	R	H	Q	T	L	K	T	P	T	N	Y	Y	L	F	S	L	A	80
81	V	S	D	L	L	V	L	L	L	G	M	P	L	E	I	Y	E	M	W	H	100
101	N	Y	P	F	L	F	G	P	V	G	C	Y	F	K	T	A	L	F	E	T	120
121	V	C	F	A	S	I	L	S	V	T	T	V	S	V	E	R	Y	V	A	I	140
141	V	H	P	F	R	A	K	L	E	S	T	R	R	R	A	L	R	I	L	S	160
161	L	V	W	S	F	S	V	V	F	S	L	P	N	T	S	I	H	G	I	K	180
181	F	Q	H	F	P	N	G	S	S	V	P	G	S	A	T	C	T	V	T	K	200
201	P	M	W	V	Y	N	L	I	I	Q	A	T	S	F	L	F	Y	I	L	P	220
221	M	T	L	I	S	V	L	Y	Y	L	M	G	L	R	L	K	R	D	E	S	240

FIGURE 15B

241	L	E	A	N	K	V	A	V	N	I	H	R	P	S	R	K	S	V	T	K	260
261	<u>M</u>	<u>L</u>	<u>F</u>	<u>V</u>	<u>L</u>	<u>V</u>	<u>L</u>	<u>V</u>	<u>F</u>	<u>A</u>	<u>I</u>	<u>C</u>	<u>W</u>	<u>T</u>	<u>P</u>	<u>F</u>	<u>H</u>	<u>V</u>	<u>D</u>	<u>R</u>	280
281	L	F	F	S	F	V	E	E	W	T	E	S	L	A	A	V	F	N	L	I	300
301	<u>H</u>	<u>V</u>	<u>V</u>	<u>S</u>	<u>G</u>	<u>V</u>	<u>F</u>	<u>F</u>	<u>Y</u>	<u>L</u>	<u>S</u>	<u>S</u>	<u>A</u>	<u>V</u>	<u>N</u>	<u>P</u>	<u>I</u>	<u>I</u>	<u>Y</u>	<u>N</u>	320
321	<u>L</u>	<u>L</u>	S	R	R	F	R	A	A	F	R	N	V	V	S	P	T	C	K	W	340
341	C	H	P	R	H	R	P	Q	G	P	P	A	Q	K	I	I	F	L	T	E	360
361	C	H	L	V	E	L	T	E	D	A	G	P	Q	F	P	G	Q	S	S	I	380
381	H	N	T	N	L	T	T	A	P	C	A	G	E	V	P	*					395

FIGURE 16A

SNORF72_RAT	~~~~~	~~~~~M	GKLENASWIHDPLMK	YLNSTEEYLA
SNORF72_HUMAN	~~~~~	~~~~~MSGM	EKLQNASWIY	QOKLEDPPQK	HLNSTEEYLA
SNORF62_HUMAN	MTPLCLNCSV	LPGDLYPGGA	RNPMACNGSA	ARGHFDP..E	DLNLTDEALR
SNORF72_RAT	H.LCGPKRSD	LSLPVSVAYA	LIFLVGMGN	LLVCMVIVRH	QTLKTPTNYY
SNORF72_HUMAN	F.LCGPRRSH	FFLPVSVVYV	PIFVGVIGN	VLVCLVILQH	QAMKTPTNYY
SNORF62_HUMAN	LKYLGPQQTE	LFMPICATYL	LIFVGAVERN	GLTCLVILRH	KAMRTPTNYY
SNORF72_RAT	LFSLAVSDLL	VLLLGMPLEI	YEMWHNYPFL	FGPVGCYFKT	ALFETVCFAS
SNORF72_HUMAN	LFSLAVSDLL	VLLLGMPLEV	YEMWRNYPFL	FGPVGCYFKT	ALFETVCFAS
SNORF62_HUMAN	LFSLAVSDLL	VLLVGLPLEL	YEMWHNYPFL	LGVGGCYFRT	LLFEMVCLAS
SNORF72_RAT	ILSVTTVSVE	RYVAIVHPFR	AKLESTRRRA	LRILSLVWSF	SVVFSLPNTS
SNORF72_HUMAN	ILSITTVSVE	RYVAIILHPFR	AKLQSTRRRA	LRILGIVWGF	SVLFSLPNTS
SNORF62_HUMAN	VLNVTALSVE	RYVAVVHPLQ	ARSMVTRAHV	RRVLGAVWGL	AMLCSLPNTS
SNORF72_RAT	IHGKFKQHFP	NGSSVPGSAT	CTVTKPMWVY	NLIQATSFL	FYILPMTLIS
SNORF72_HUMAN	IHGKFKHYFP	NGSLVPGSAT	CTVIKPMWIY	NFIIQVTSFL	FYLLPMTVIS
SNORF62_HUMAN	LHGIRQLHVP	CRGPVPDSAV	CMLVRPRALY	NMVVQTALL	FFCLPMAIMS

FIGURE 16B

SNORF72_RAT	VLYYLMGLRL	KRDESL...E	A...NKVAVN	IHRPS.....	...RKSVTKM
SNORF72_HUMAN	VLYYLMALRL	KKDKSL...E	A...DEGNAN	IQRPC.....	...RKS VNKM
SNORF62_HUMAN	VLYLLIGLRL	RRERLLMQE	AKGRGSAAR	SRYTCRLQQH	DRGRRQVTKM
SNORF72_RAT	LFVLVLVFAI	CWTPFHVDRL	FFSFVEEWE	SLAAVFNLIH	VVSGVFFYLS
SNORF72_HUMAN	LFVLVLVFAI	CWAPFHIDRL	FFSFVEEWE	SLAAVFNLVH	VVSGVFFYLS
SNORF62_HUMAN	LFVLVVVFGI	CWAPFHADRV	MWSVVSQWTD	GLHLAFQHVH	VISGIFFFYLG
SNORF72_RAT	SAVNPITYNL	LSRRFRAAFR	NV..VSPTCK	WCHPRHRPQG	PPAQKIIFLT
SNORF72_HUMAN	SAVNPITYNL	LSRRFQAAFQ	NV..ISSFHK	QWHSQHDPQL	PPAQRNIFLT
SNORF62_HUMAN	SAANPVLVSL	MSSRFRETFQ	EALCLGACCH	RLRPRHSSH.	SLSRMTTGST
SNORF72_RAT	ECHLVELTED	AGPQFPGQSS	IHNTNLTAP	CAGEVP~~~~~	~~~~~
SNORF72_HUMAN	ECHFVELTED	IGPQFPCQSS	MHNSHLPTAL	SSEQMSRTNY	QSFHFNKT
SNORF62_HUMAN	LCDVGSLGSW	VHPLAGNDGP	EAQQETDPS~	~~~~~	~~~~~

FIGURE 17A

1 CACCATCTCGGTTTAAGATAAAGATAATGGAGCTCTCCCCAAATGCTTCAACGGGCTCTT 60
61 GTCCGTCAATGACAGTGAGTTCAAGGAGCACTTTGACCTTGAGGACCTGAACCTTACTCA 120
121 TGAGGACCTGAGGCTGAAGTACTTGGGGCCACAGCAGGTAAACAATTTTGTCCCATCTG 180
181 TGTCACGTACCTGTTGATCTTCGTAGTGGCACTCTGGGCAACGGGTGACCTGCACCGT 240
241 CATCCCTGCGCCAGAAGGCAATGCACACGCCCACTTCTACCTCTTCAGTCTCGCGGT 300
301 GTCCGATTGCTGGTGCTCCTGGTGGGCTTGCCCCCTGGAACTTTATGAGATGCAGCACAA 360
361 TTACCCATTCCAGCTGGGTGCAGGTGGCTGTACTTCCGGATACTGCTTTTGGAGACTGT 420
421 CTGCCCTGGCTTCAGTGCTCAATGTCAACAGCCCTAAGTGTGGAGCGTTATGTGGCCGTGGT 480
481 GCACCCACTCCAAGCCAAGTCTGTGATGACACGGACCCCATGTGCGCCGCATGTTGGGAGC 540
541 CATCTGGGTCTTCGCTATTCTCTTCTCTCTGCCCCAACACCAAGCTTACATGGCCCTCAGTCC 600
601 ACTCTATGTACCCCTGCCCGGGGGCCGGTGCCCCGATTACGTGTACGCTGGTGCGGTCC 660
661 CCAGTTCTTCTACAAAGTTGGTAATACAGACGACCATACTGCTCTTCTTCTGTCTGCCCAT 720

FIGURE 17B

721	GGTCACCATCAGTGTGCTGTACCTGCTCATTTGGCTGAGGCTGCGGAGGAGAGGATGTT	780
781	GCTCCAAGAGAGGTCAAGGCAGGATATCTGCAGCAGCCAGCAGGCTCCACAGAAG	840
841	TATTCAGCTTCGAGATAGGGAACGCAGACAGGTGACCAAGATGCTAATTGCTCTGGTTAT	900
901	AGTATTGGCACCTGCTGGGTTCATTTCCATGCTGACCGTCTCATGTGAGTATGGTGTC	960
961	CCATTGGACTGACGGCCTGCGCCTTGCCCTTCCAGTCTGTGCACCTTGCTTGGTGCTT	1020
1021	CTTGTAACCTCGGCTCAGCGGCTAACCCGGAGCTCTACAACCTCATGTCCACTCGCTTCCG	1080
1081	AGAGTCCTTCCGGGAAACCCCTGGGCCCTTGGGACACGGTGCTGTCTATCGCCACCAACCGCG	1140
1141	TCACGACTCCCATAGCCACCTTAGGTTGACCACAGTCAGCACCCCTGTGTGACAGGAACAG	1200
1201	CAGGGATGTACCCCTGGCTGAGAAACAGGGATCCAGGGTGTGAGCAAGAGACAGACCCCTCC	1260
1261	TGAATAAAATCCTGTGGCCTCACCCACAGGGC	1292

FIGURE 18A

1	M	E	L	S	P	N	A	S	T	G	L	L	S	C	N	D	S	E	F	K	20
21	E	H	F	D	L	E	D	L	N	L	T	H	E	D	L	R	L	K	Y	L	40
41	G	P	Q	Q	V	K	Q	F	L	P	I	C	V	T	Y	L	L	I	F	V	60
61	V	G	T	L	G	N	G	L	T	C	T	V	I	L	R	Q	K	A	M	H	80
81	T	P	T	N	F	Y	L	F	S	L	A	V	S	D	L	L	V	L	L	V	100
101	G	L	P	L	E	L	Y	E	M	Q	H	N	Y	P	F	Q	L	G	A	G	120
121	G	C	Y	F	R	I	L	L	L	E	T	V	C	L	A	S	V	L	N	V	140
141	T	A	L	S	V	E	R	Y	V	A	V	V	H	P	L	Q	A	K	S	V	160
161	M	T	R	T	H	V	R	R	M	L	G	A	I	W	V	F	A	I	L	F	180
181	S	L	P	N	T	S	L	H	G	L	S	P	L	Y	V	P	C	R	G	P	200
201	V	P	D	S	V	T	C	T	L	V	R	P	Q	F	F	Y	K	L	V	I	220
221	Q	T	T	I	L	L	F	F	C	L	P	M	V	T	I	S	V	L	Y	L	240

FIGURE 18B

241	<u>L I G L</u>	R L R R E R M L L Q E E V K G R	260
261	I S A A A R Q A S H R S I Q L R D R E R	280	
281	R Q V T K M L I A L V I V F G T C W V P	300	
301	<u>F H A</u> D R L M W S M V S H W T D G L R L	320	
321	A F Q S V H L A S G V F L Y L G S A A N	340	
341	<u>P E L Y N L M S</u> T R F R E S F R E T L G	360	
361	L G T R C C H R H Q P R H D S H S H L R	380	
381	L T T V S T L C D R N S R D V P L A E N	400	
401	R D P G C E Q E T D P P E	413	

FIGURE 19A

1 GGGACAGCACGTTAGACCCAAAGTCTCATGGACTTCCTCTCTCAGTGTCA~~TTTTTTCTCA~~ 60
61 TCTGTAAAAATGGGATTGTTGTCCAGAAAAAGGAGACATTCTCAGCTTCGGCTCTCCCCAA 120
121 ATGCTTCAACGGGCTCTTGTCCTGCAATGACAGTGAGTTCAAGGAGCACTTTGACCTTG 180
181 AGGACCTGAACCTTACTCATGAGGACCTGAGGCTGAAGTACTTGGGGCCACAGCAGGTAA 240
241 AACAA~~TTTTTGCCCAT~~CTGTGTCACGTACCTGTGTGATCTTCGTAGTGGGCACTCTGGGCA 300
301 ACGGGTTGACCTGCACCGTCA~~TCC~~TGCGCCAGAAAGGCAATGCACACGCCCACTTCT 360
361 ACCTCTTCAGTCTCGCGGTGTCCGATTTGCTGGTGCTCCTGGTGGGCTTGCCCCCTGGAAC 420
421 TTTATGAGATGCAGCACAAATTACCCATTCCAGCTGGGTGCAGGTGGCTGTACTTCCGGA 480
481 TACTGCTTTTGGAGACTGTCTGCCCTGGCTTCAGTGCTCAATGTCAAGCCCTAAGTGTGG 540
541 AGCGTTATGTGGCCCGTGGTGCACCCCACTCCAAGCCAAGTCTGTGATGACACGGACCCATG 600
601 TCGCGCCGCATGTTGGGAGCCATCTGGGTCTTCGCTATTCTCTCTCTGCCCCAACACCA 660
661 GCTTACATGGCCCTCAGTCCACTCTATGTACCCCTGCCGGGGCCGGTGCCCGATTTCAGTTA 720

FIGURE 20A

1	M	D	F	L	S	Q	C	H	F	F	L	I	C	K	M	G	L	S	R	20
21	K	R	R	H	S	Q	L	R	L	S	P	N	A	S	T	G	L	S	C	40
41	N	D	S	E	F	K	E	H	F	D	L	E	D	L	N	L	T	H	E	60
61	L	R	L	K	Y	L	G	P	Q	Q	V	K	Q	F	L	P	I	C	V	80
81	<u>Y</u>	<u>L</u>	<u>L</u>	<u>I</u>	<u>F</u>	<u>V</u>	<u>V</u>	<u>G</u>	<u>T</u>	<u>L</u>	<u>G</u>	<u>N</u>	<u>G</u>	<u>L</u>	<u>T</u>	<u>C</u>	<u>T</u>	<u>V</u>	<u>I</u>	100
101	R	Q	K	A	M	H	T	P	T	N	F	Y	L	F	S	L	A	V	S	120
121	<u>L</u>	<u>L</u>	<u>V</u>	<u>L</u>	<u>L</u>	<u>V</u>	<u>G</u>	<u>L</u>	<u>P</u>	<u>L</u>	<u>E</u>	<u>L</u>	<u>Y</u>	<u>E</u>	<u>M</u>	<u>Q</u>	<u>H</u>	<u>N</u>	<u>Y</u>	140
141	F	Q	L	G	A	G	G	C	Y	F	R	I	L	L	L	E	T	V	C	160
161	<u>A</u>	<u>S</u>	<u>V</u>	<u>L</u>	<u>N</u>	<u>V</u>	<u>T</u>	<u>A</u>	<u>L</u>	<u>S</u>	<u>V</u>	<u>E</u>	<u>R</u>	<u>Y</u>	<u>V</u>	<u>A</u>	<u>V</u>	<u>V</u>	<u>H</u>	180
181	L	Q	A	K	S	V	M	T	R	T	H	V	R	R	M	L	G	A	I	200
201	<u>V</u>	<u>F</u>	<u>A</u>	<u>I</u>	<u>L</u>	<u>F</u>	<u>S</u>	<u>L</u>	<u>P</u>	<u>N</u>	<u>T</u>	<u>S</u>	<u>L</u>	<u>H</u>	<u>G</u>	<u>L</u>	<u>S</u>	<u>P</u>	<u>L</u>	220
221	V	P	C	R	G	P	V	P	D	S	V	T	C	T	L	V	R	P	Q	240

FIGURE 20B

241	F	Y	K	L	V	I	Q	T	T	I	L	L	F	F	C	L	P	M	V	T	260
261	I	S	V	L	Y	L	I	G	L	R	L	R	R	E	R	M	L	L	Q		280
281	E	E	V	K	G	R	I	S	A	A	A	R	Q	A	S	H	R	S	I	Q	300
301	L	R	D	R	E	R	R	Q	V	T	K	M	L	I	A	L	V	I	V	F	320
321	G	T	C	W	V	P	F	H	A	D	R	L	M	W	S	M	V	S	H	W	340
341	T	D	G	L	R	L	A	F	Q	S	V	H	L	A	S	G	V	F	L	Y	360
361	L	G	S	A	A	N	P	E	L	Y	N	L	M	S	T	R	F	R	E	S	380
381	F	R	E	T	L	G	L	G	T	R	C	C	H	R	H	Q	P	R	H	D	400
401	S	H	S	H	L	R	L	T	T	V	S	T	L	C	D	R	N	S	R	D	420
421	V	P	L	A	E	N	R	D	P	G	C	E	Q	E	T	D	P	P	E		439

FIGURE 21A

Rat SNORF62a	~~~~~	~~~~~	~~~~~MELS	PNASTGLLSC	NDSEFKEHFD
Rat SNORF62b	MDFLSQCHFF	LICKMGLLSR	KRRHSQRLRS	PNASTGLLSC	NDSEFKEHFD
Hum SNORF62	~~~~~	~~~~~	~~~~~MTPCL	PGGARNPMAC	NGSAARGHFD
Rat SNORF62a	LEDNLTHED	LRLKYLGPQQ	VKQFLPICVT	YLLIFVVGTL	GNGLTCTVIL
Rat SNORF62b	LEDNLTHED	LRLKYLGPQQ	VKQFLPICVT	YLLIFVVGTL	GNGLTCTVIL
Hum SNORF62	PEDNLNLTDEA	LRLKYLGPQQ	TELFMPICAT	YLLIFVVGAV	GNGLTCLVIL
Rat SNORF62a	RQKAMHTPTN	FYLFSLAVSD	LLVLLVGLPL	ELYEMQHNYP	FQLGAGGCYF
Rat SNORF62b	RQKAMHTPTN	FYLFSLAVSD	LLVLLVGLPL	ELYEMQHNYP	FQLGAGGCYF
Hum SNORF62	RHKAMRTPTN	YYLFSLAVSD	LLVLLVGLPL	ELYEMWHNYP	FLLGVGGCYF
Rat SNORF62a	RILLETVCL	ASVLNVTALS	VERYVAVVHP	LQAKSVMTRT	HVRRMLGAIW
Rat SNORF62b	RILLETVCL	ASVLNVTALS	VERYVAVVHP	LQAKSVMTRT	HVRRMLGAIW
Hum SNORF62	RTLLEFEMVCL	ASVLNVTALS	VERYVAVVHP	LQARSMVTRA	HVRRVLGAVW

Rat	SNORF62a	VFAILFSLPN	TSLHGLSPLY	VPCRGVPVPS	VTCTLVRPQF	FYKLVIQTII
Rat	SNORF62b	VFAILFSLPN	TSLHGLSPLY	VPCRGVPVPS	VTCTLVRPQF	FYKLVIQTII
Hum	SNORF62	GLAMLCSLPN	TSLHGIRQLH	VPCRGVPVPS	AVCMLVRPRA	LYNMVVQTTA
Rat	SNORF62a	LLFFCLPMVT	ISVLYLLIGL	RLRRERMLLQ	EEVKGRISAA	ARQASHRSIQ
Rat	SNORF62b	LLFFCLPMVT	ISVLYLLIGL	RLRRERMLLQ	EEVKGRISAA	ARQASHRSIQ
Hum	SNORF62	LLFFCLPMAI	MSVLYLLIGL	RLRRERLLLM	QEAKGRGSAA	ARSRYTCRLQ
Rat	SNORF62a	LRDRERRQVT	KMLIALVIVF	GTCWVPFHAD	RLMWSMVSHW	TDGLRLAFQS
Rat	SNORF62b	LRDRERRQVT	KMLIALVIVF	GTCWVPFHAD	RLMWSMVSHW	TDGLRLAFQS
Hum	SNORF62	QHDRGRRQVT	KMLFVLVVVF	GICWAPFHAD	RVMWSVVSQW	TDGLHLAFQH
Rat	SNORF62a	VHLASGVFLY	LGSAANPELY	NLMSTRFRES	FRETGLGLGTR	CCHRHQPRHD
Rat	SNORF62b	VHLASGVFLY	LGSAANPELY	NLMSTRFRES	FRETGLGLGTR	CCHRHQPRHD
Hum	SNORF62	VHVISGIFFY	LGSAANPVLY	SLMSSRFRET	FQEALCLGA	CCHRLRPRHS

FIGURE 21C

Rat SNORF62a	SHSHLRLLTTV	STLCDRNSRD	V...PLAENR	DPGCEQETDP	PE
Rat SNORF62b	SHSHLRLLTTV	STLCDRNSRD	V...PLAENR	DPGCEQETDP	PE
Hum SNORF62	SHSLSRMTTG	STLCDVGSLG	SWVHPLAGND	GPEAQQETDP	S~~

FIGURE 22

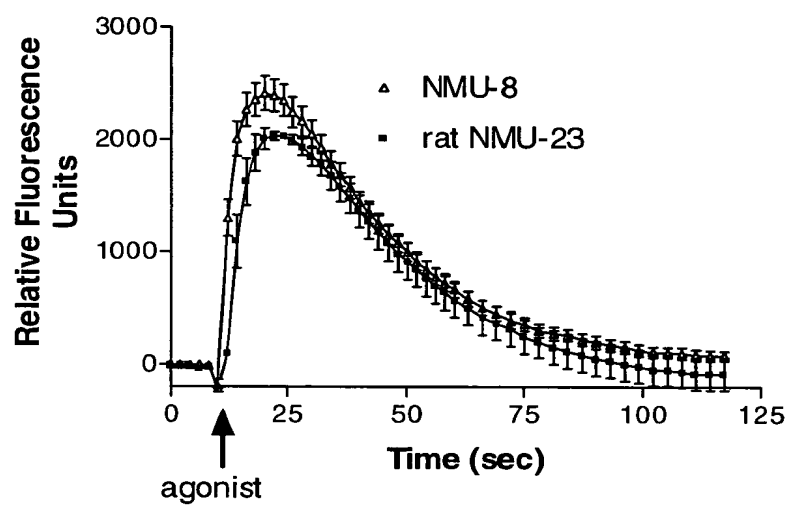
[illegible]

FIGURE 23

